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*Cell sorting to screen for recombinant enzymes
excise λ library into E.coli*

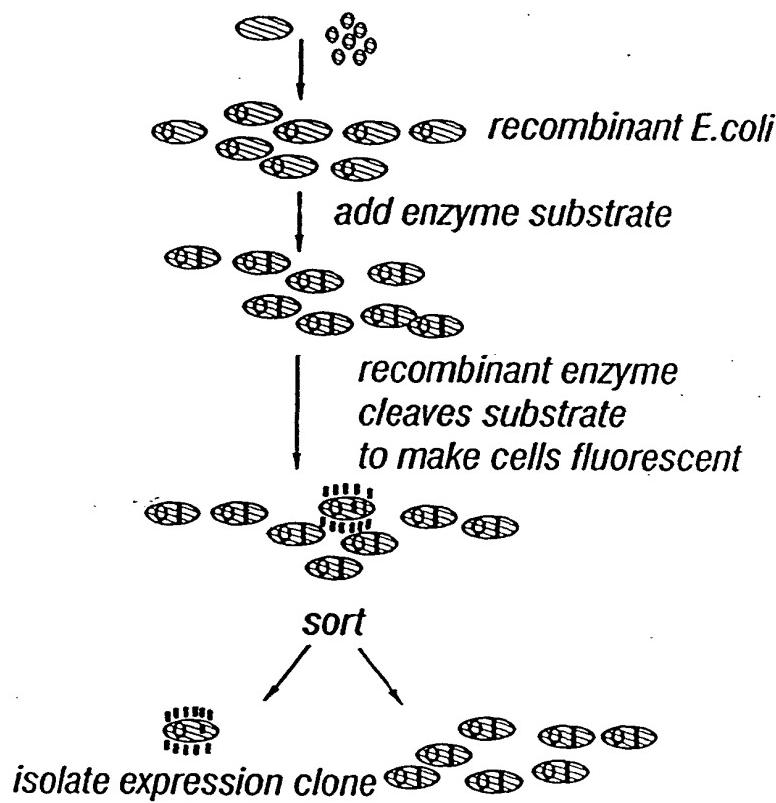


FIGURE 1

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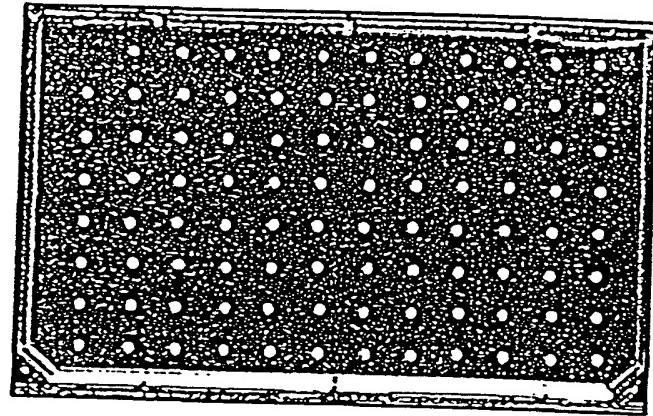
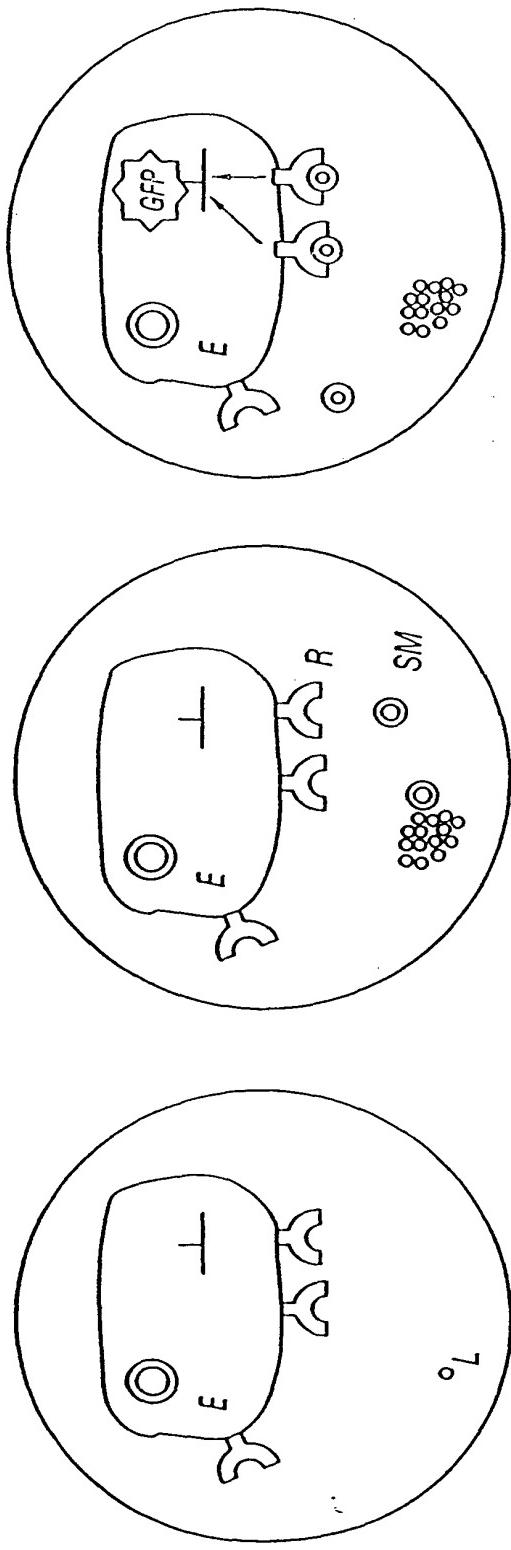


FIGURE 2



Growth and expression
of small molecule from host
Eukaryote + Eukaryote

Receptor binding of small
molecule & GFP reporting

E = Eukaryotic assay organism L = Large insert library
GFP = Green fluorescent protein R = Eukaryotic receptor
SM = Small molecule

FIGURE 3

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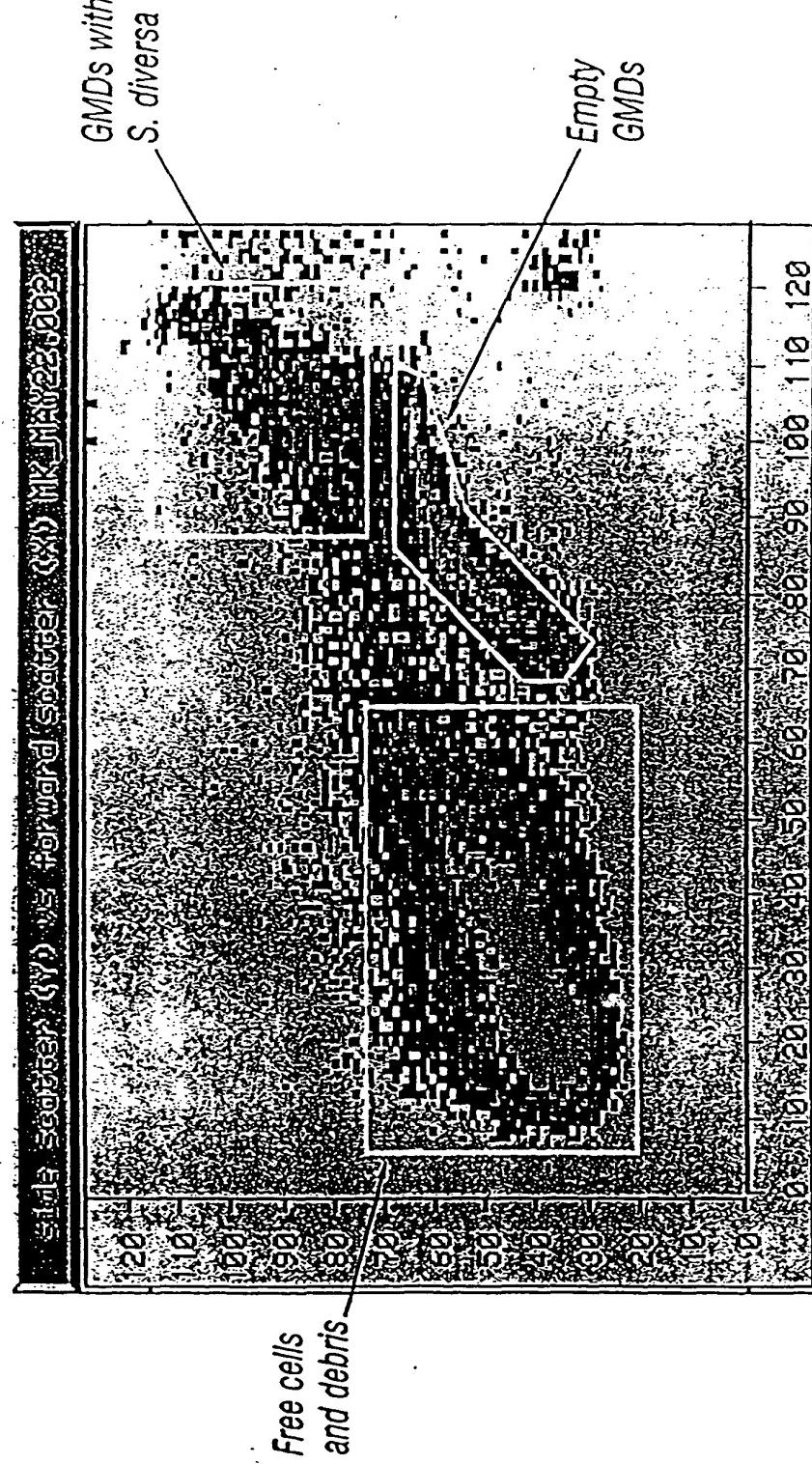


FIGURE 4

Whole Cell Hybridization Protocol

(+ control)

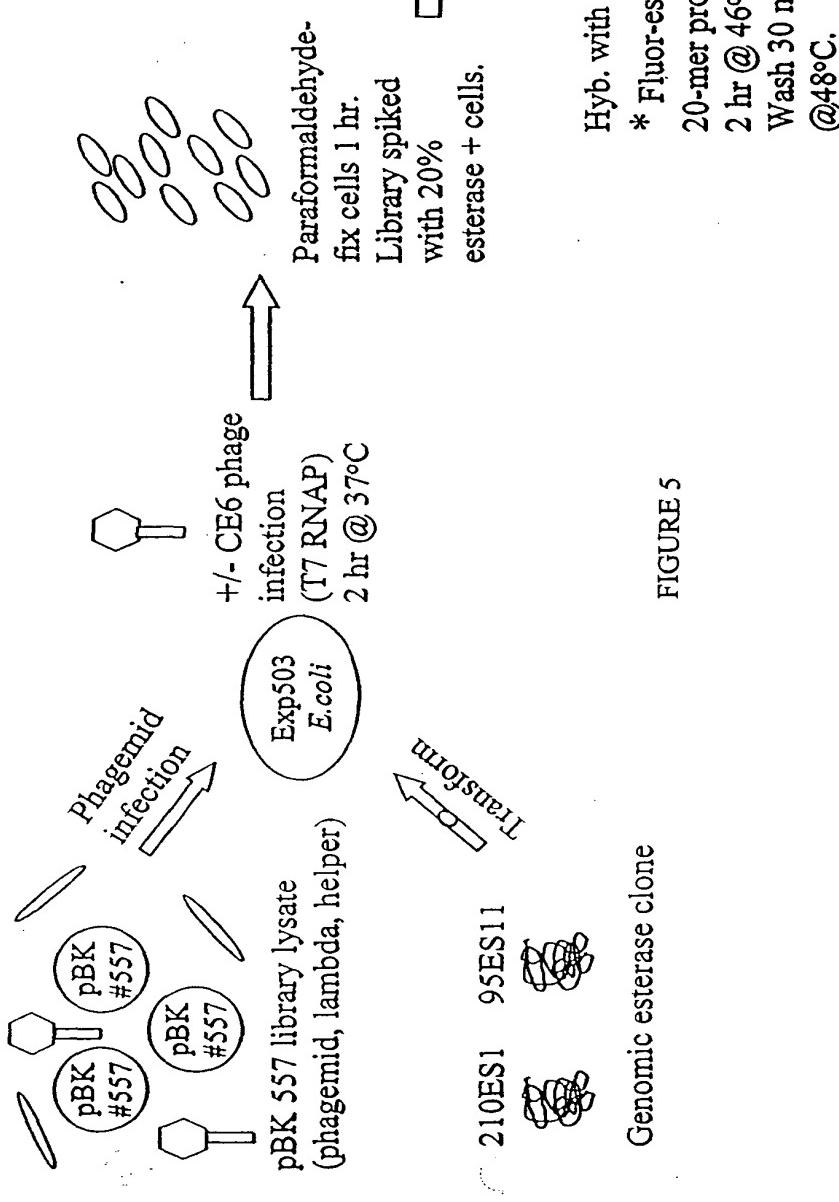


FIGURE 5

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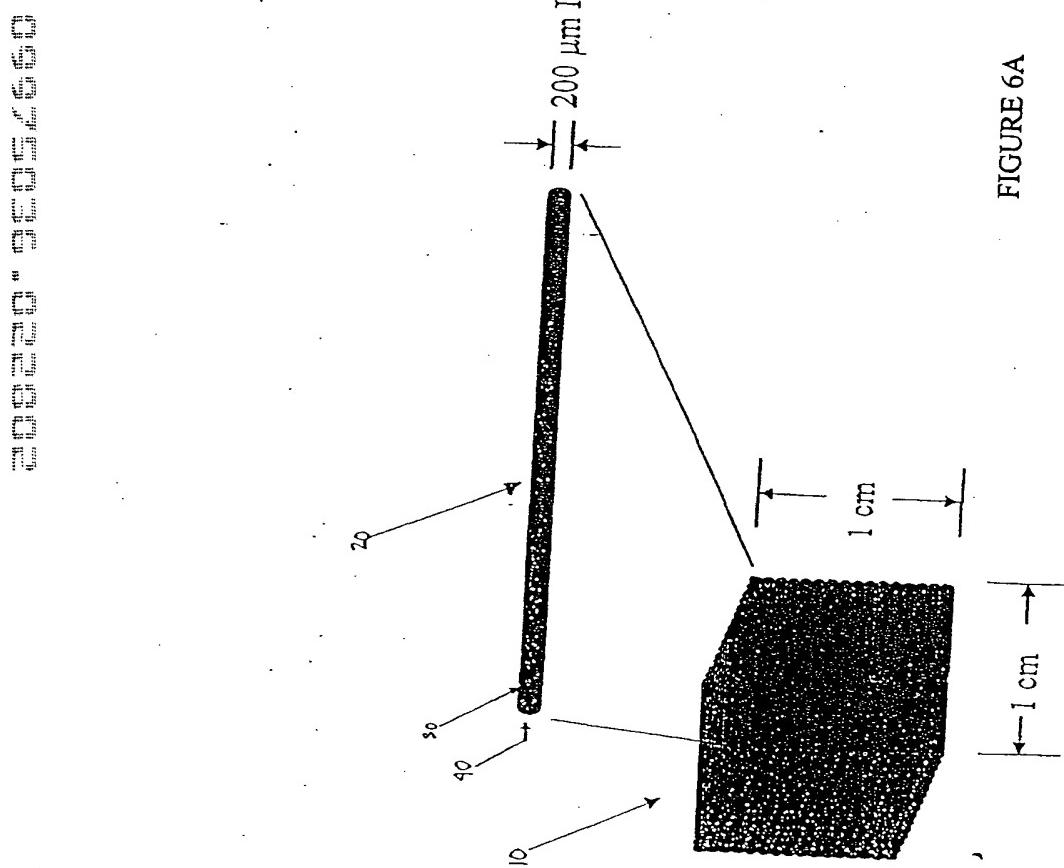


FIGURE 6A

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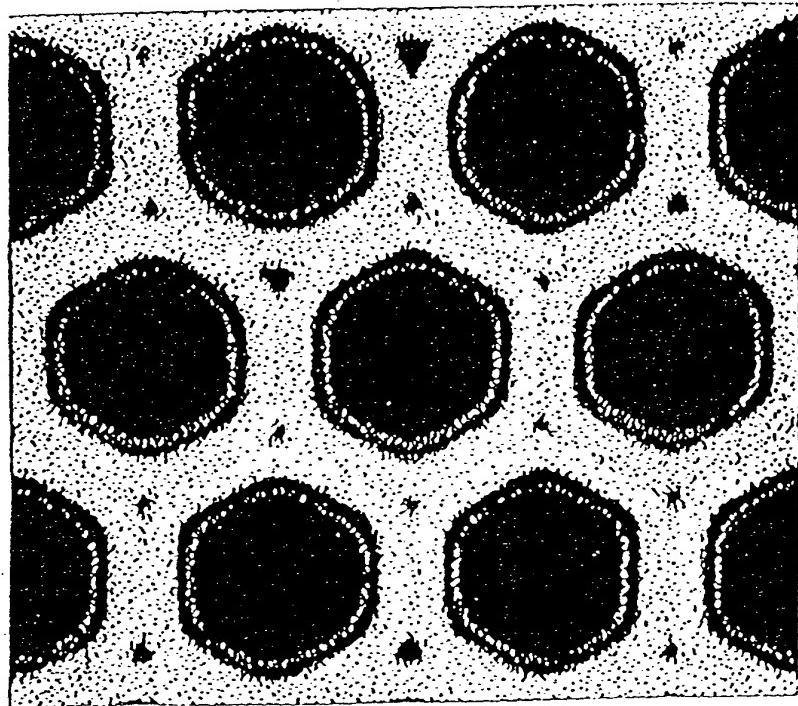


FIGURE 6B

2025 RELEASE UNDER E.O. 14176

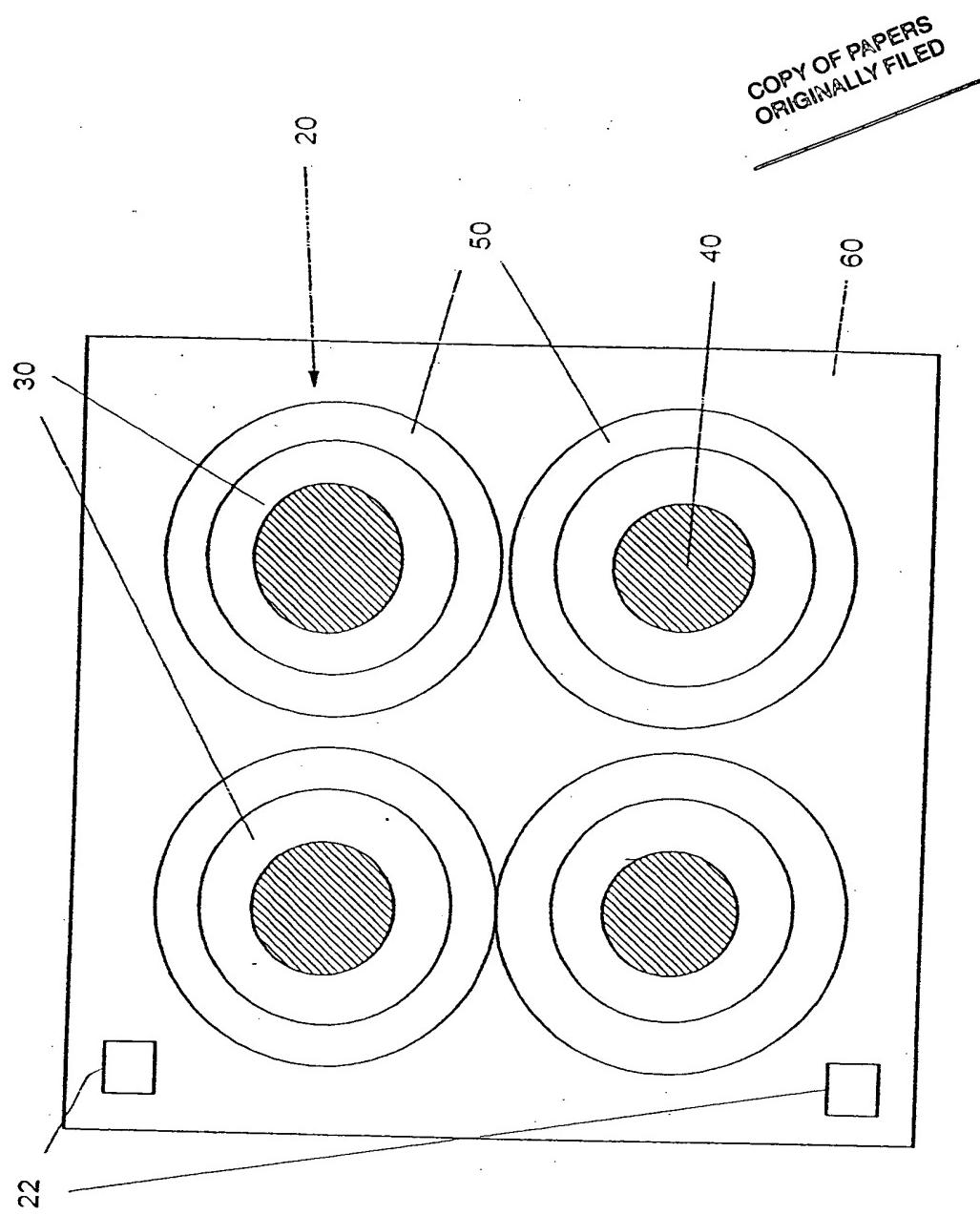


FIGURE 7

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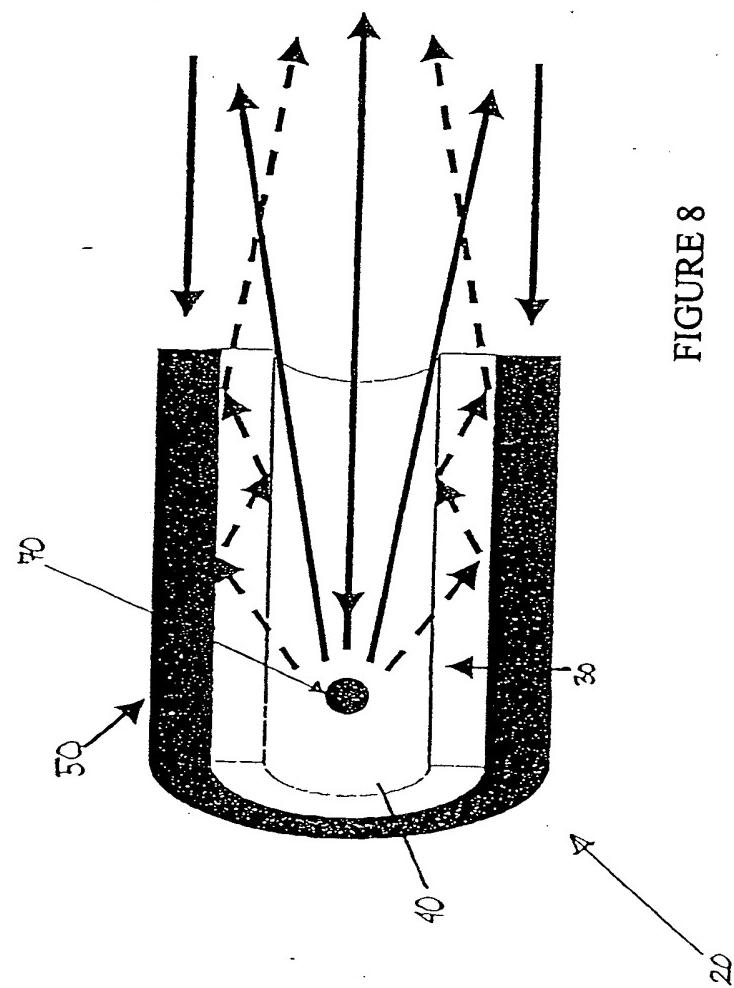


FIGURE 8

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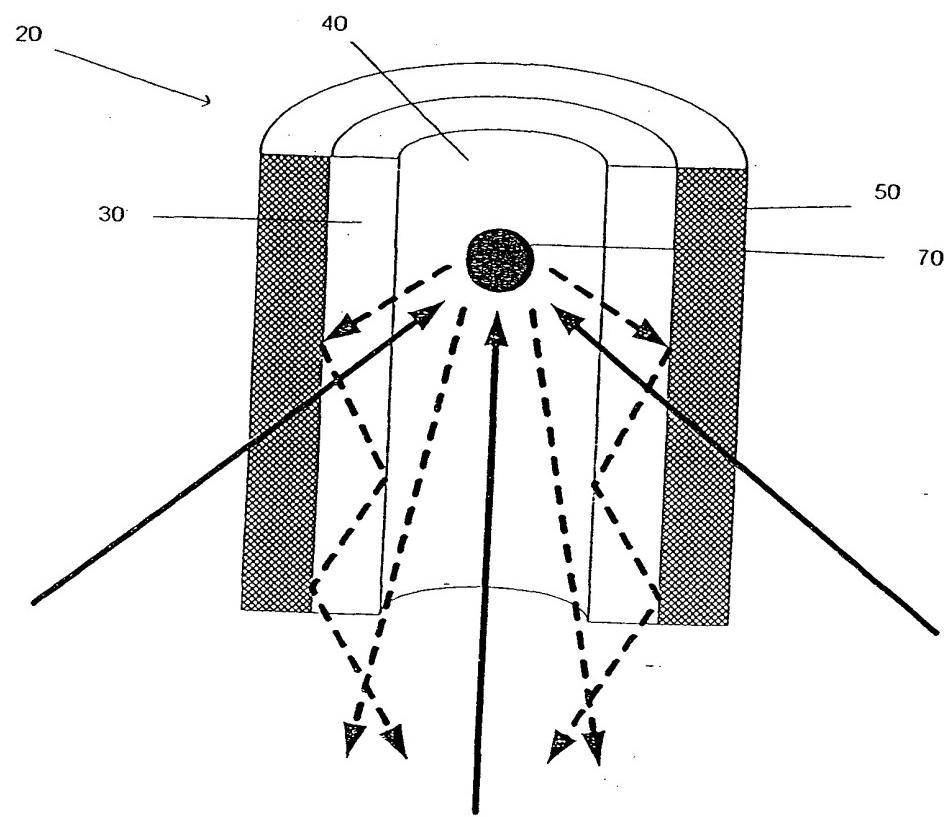
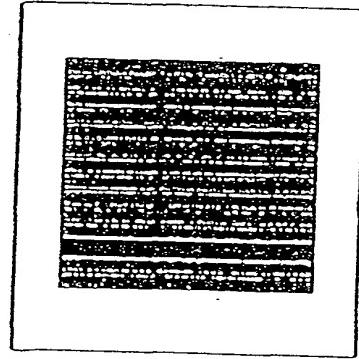


FIGURE 9

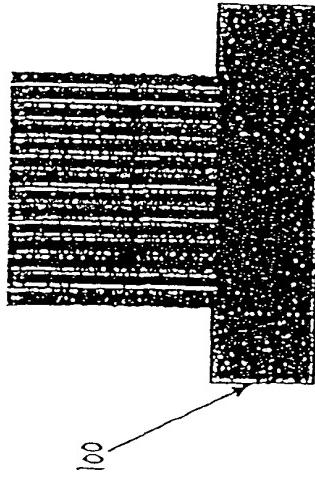
000000000000000000000000

Imaging &
Recovery

Humidified Incubation



Wicking
10



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FIGURE 10

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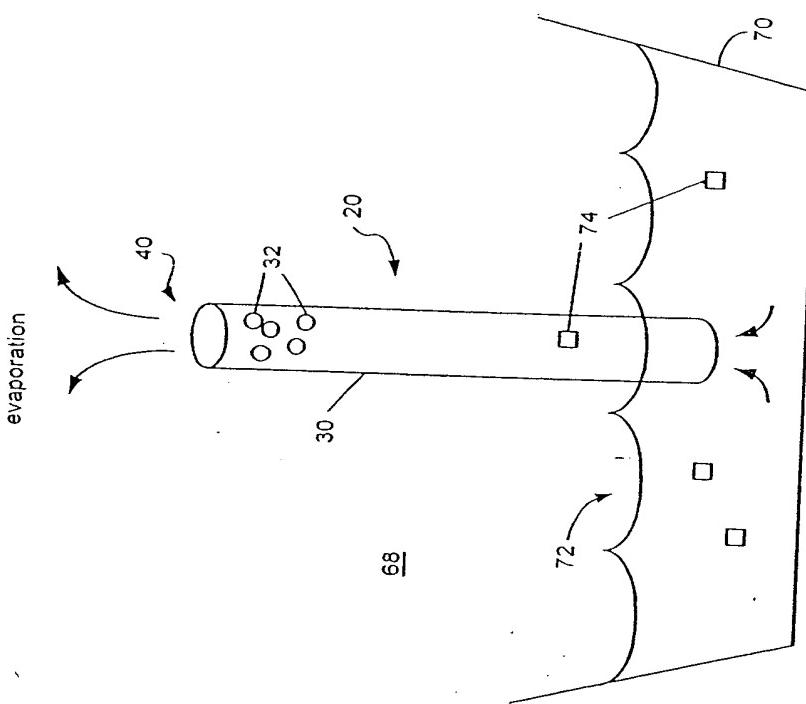


FIGURE 11

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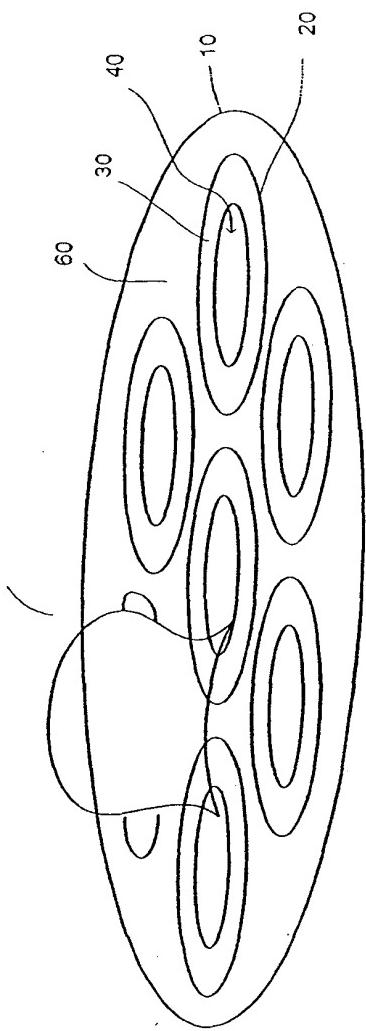


FIGURE 12A

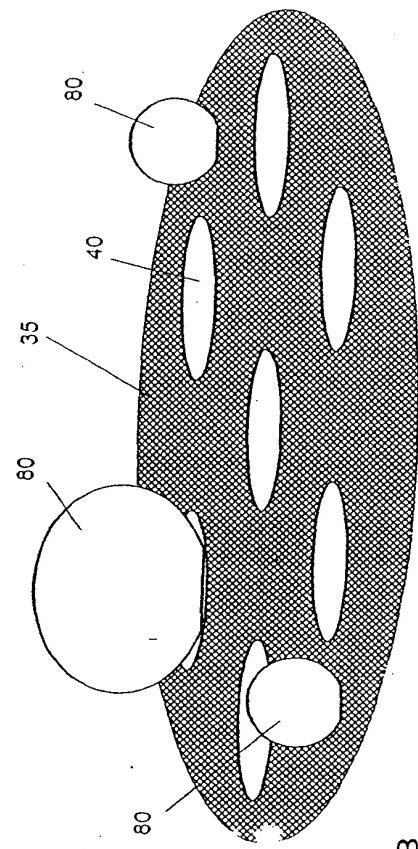


FIGURE 12B

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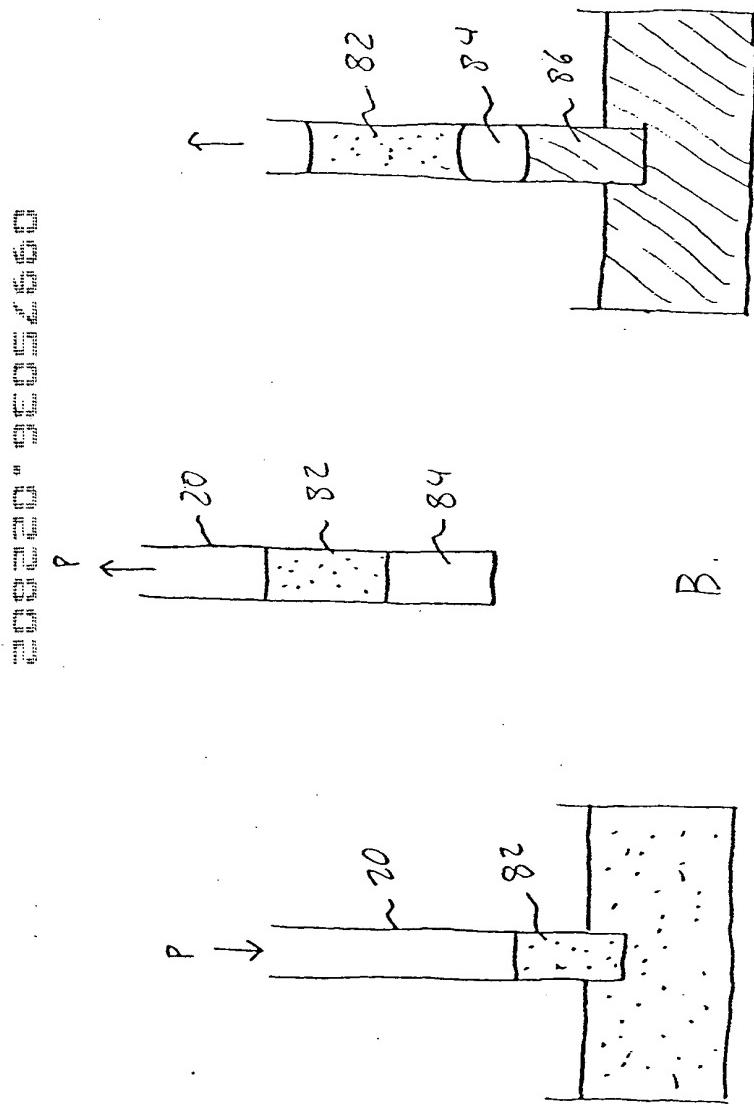


FIGURE 13

**COPY OF PAPERS
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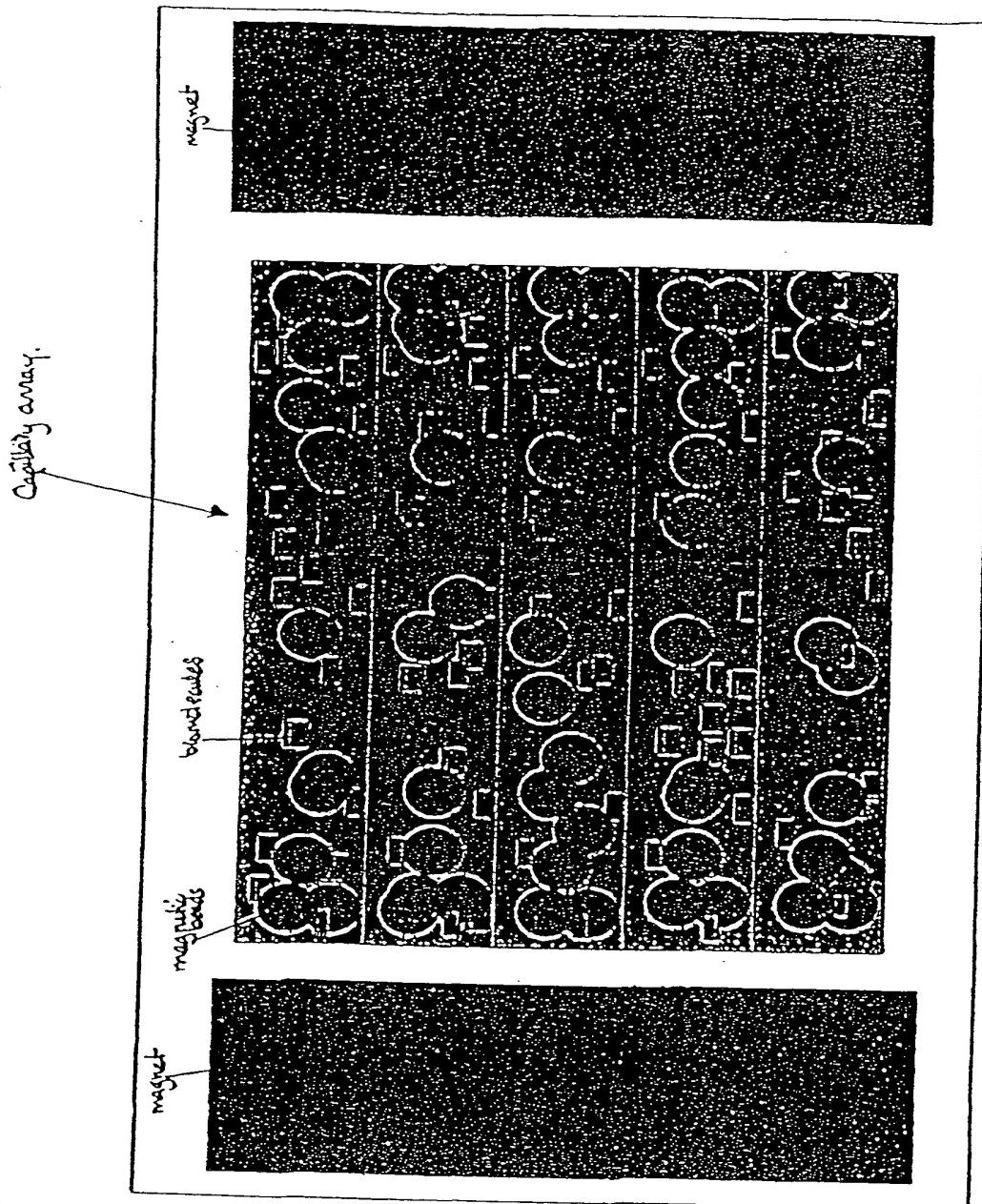


FIGURE 14A

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FIGURE 14B

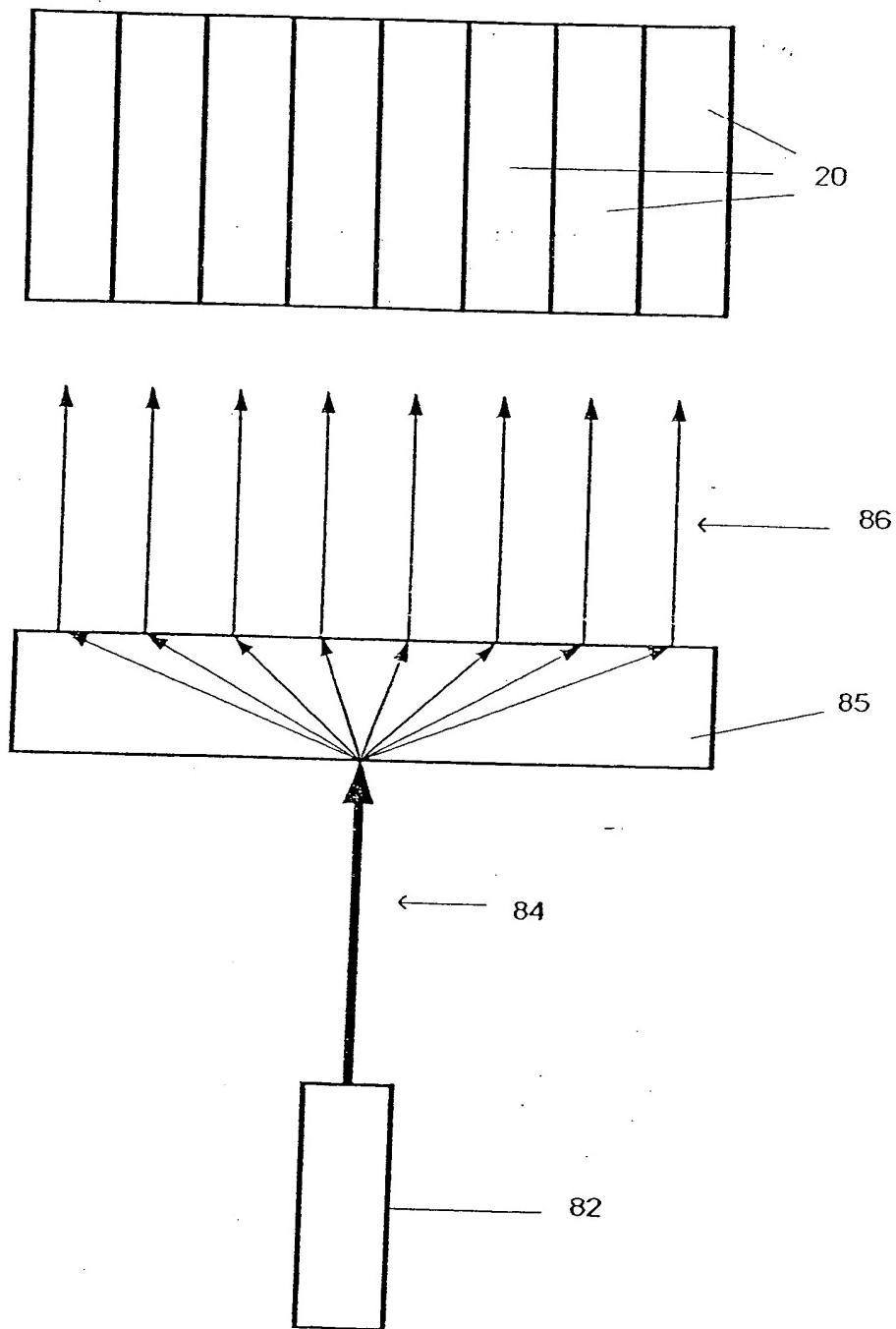


FIGURE 15

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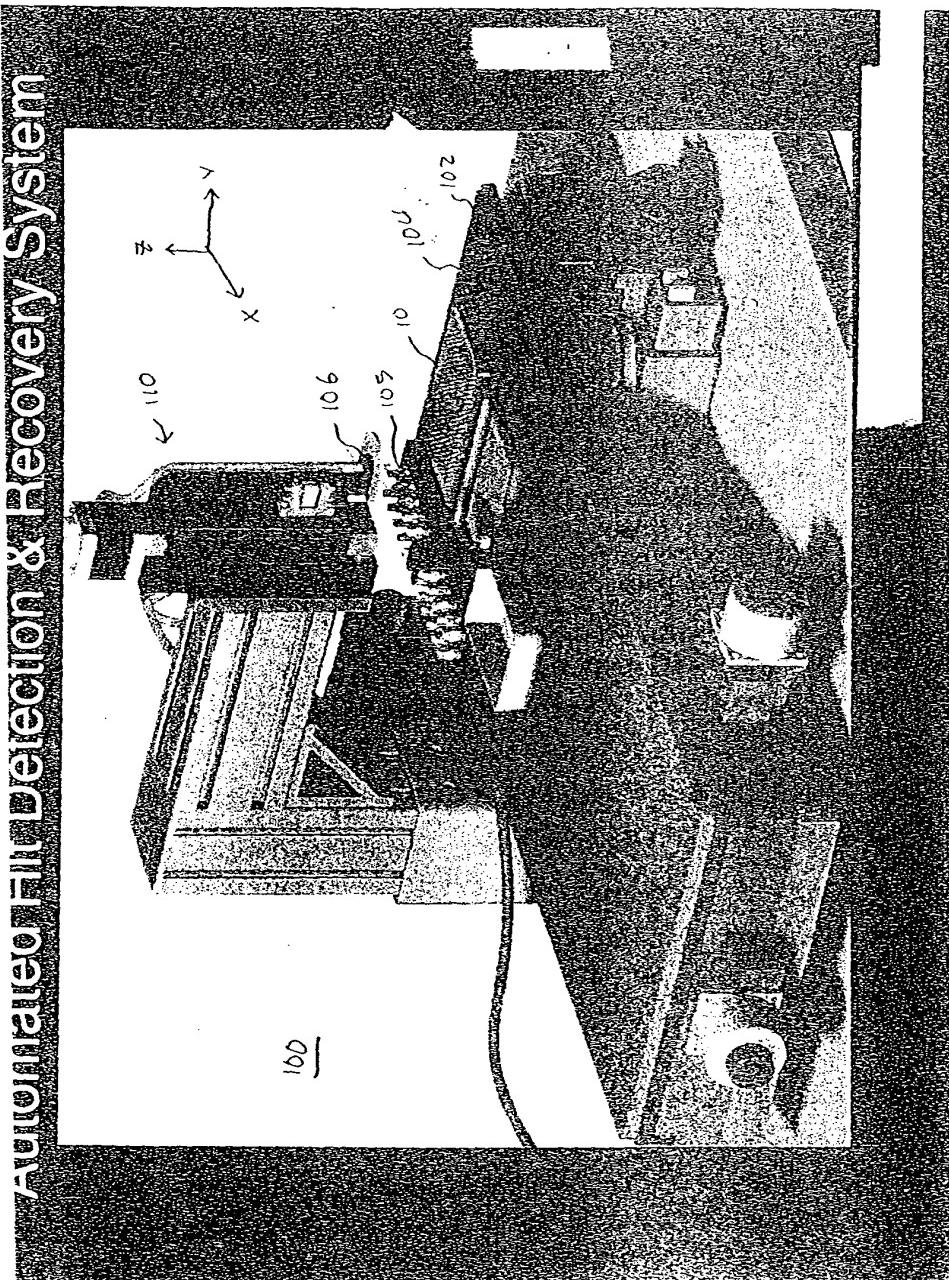


FIGURE 16

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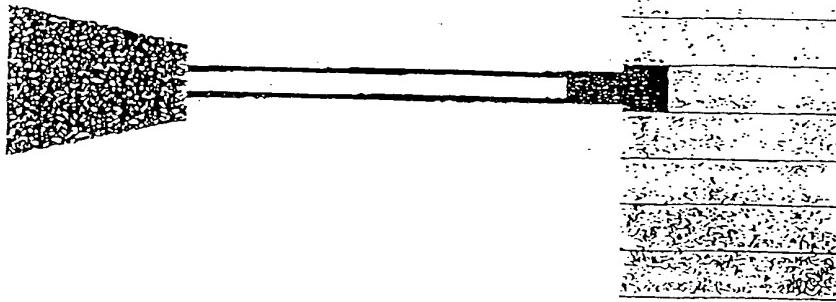


FIGURE 17B

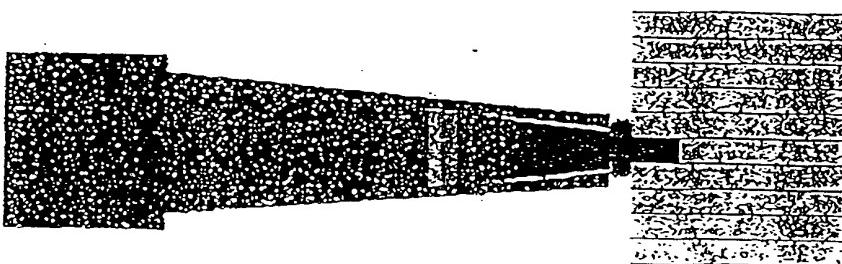


FIGURE 17A

2025 RELEASE UNDER E.O. 14176

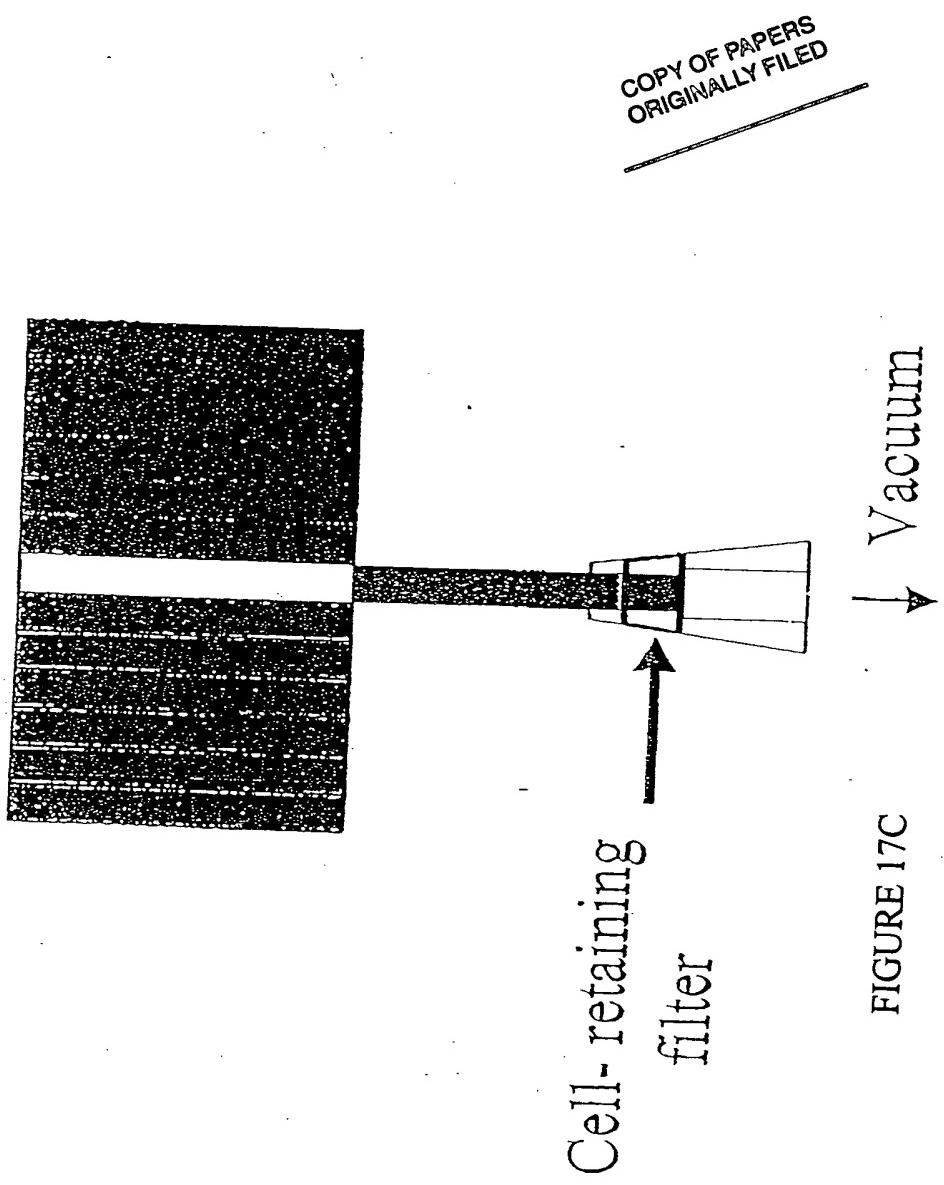
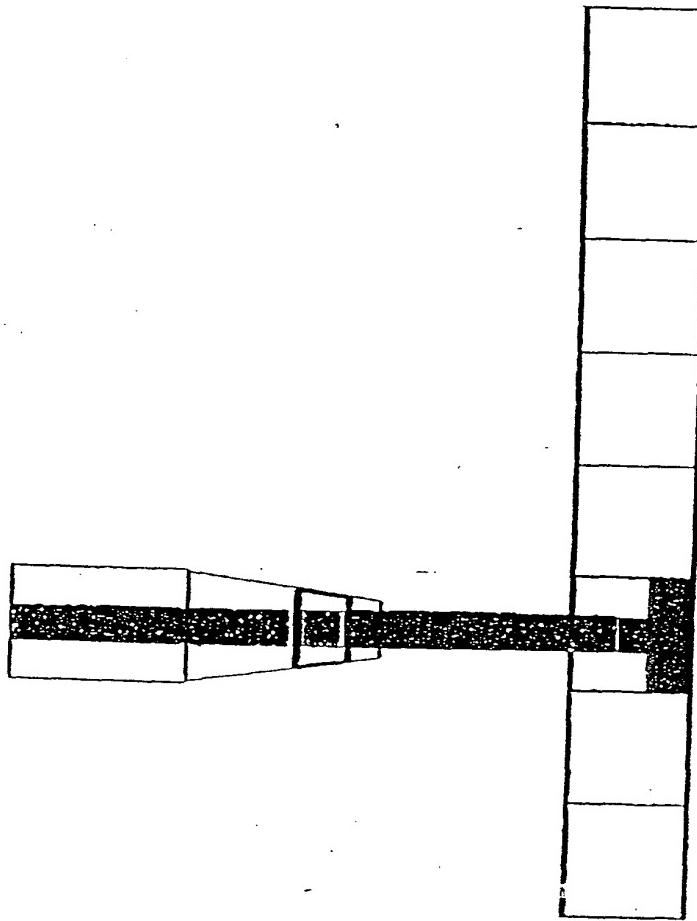


FIGURE 17C

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FIGURE 17D



HTP Enrichment of Low Copy Gene Targets

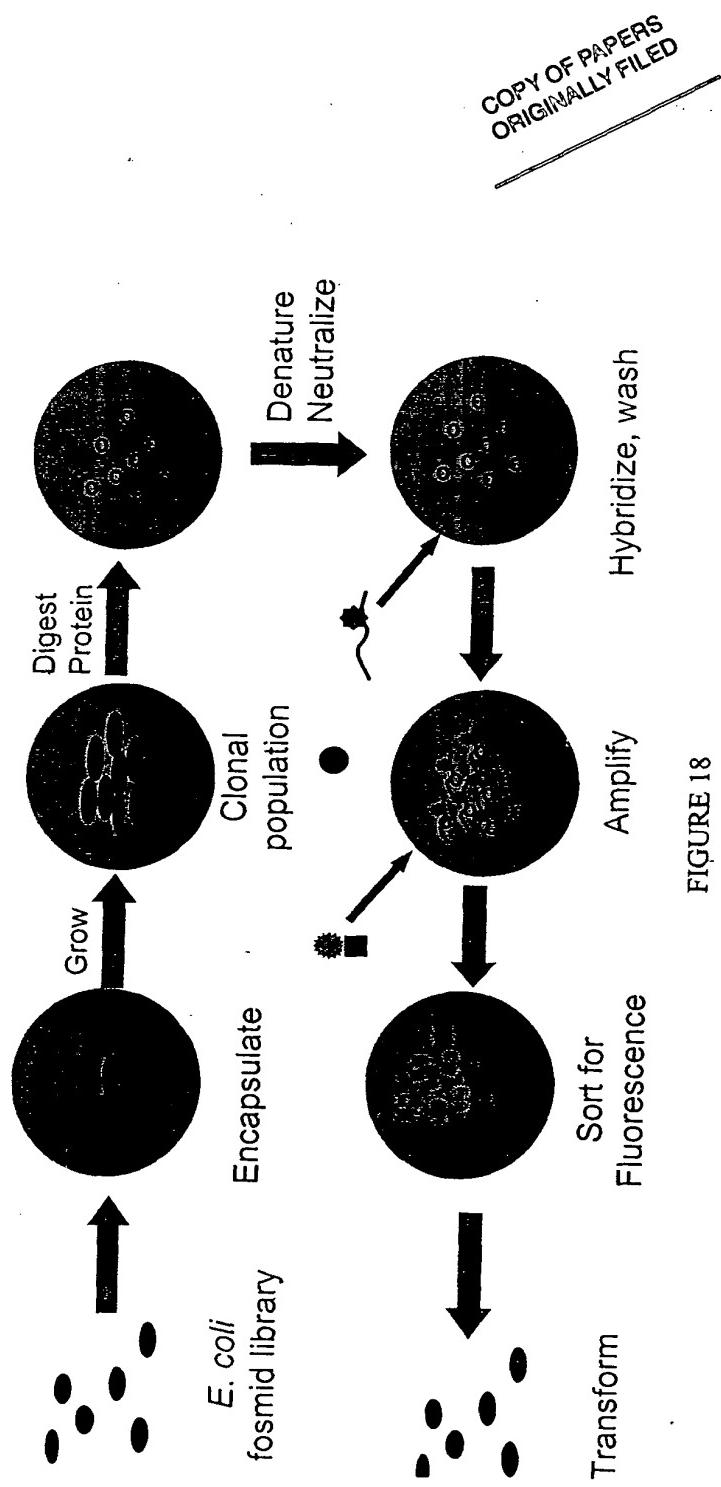


FIGURE 18

FACS-Biopanning

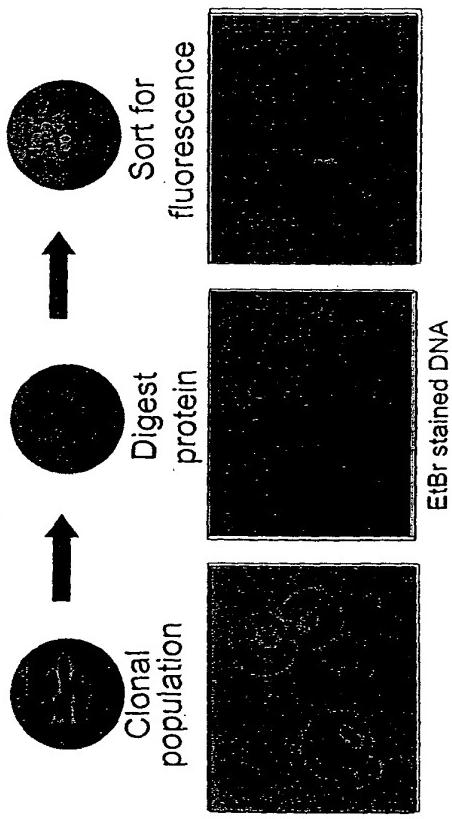


FIG. 19

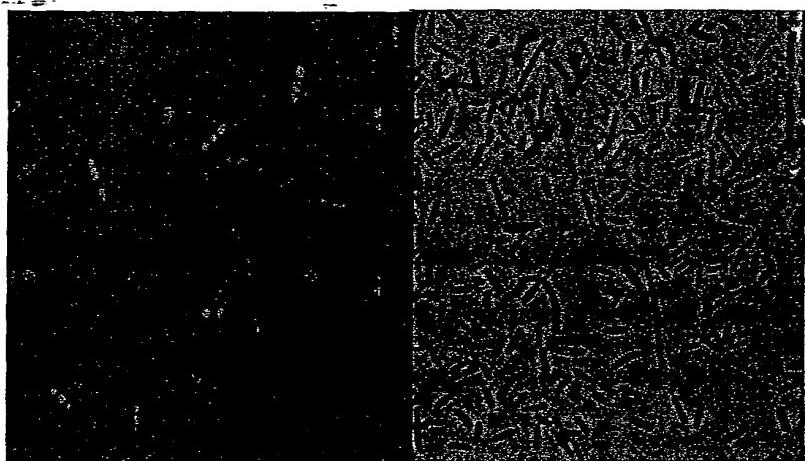
Alignment of Environmental
PKS Sequence

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MEATBALLS
PASTA SAUCE
SPINACH PASTA
MANTU MEAT
GULAB JAMUN

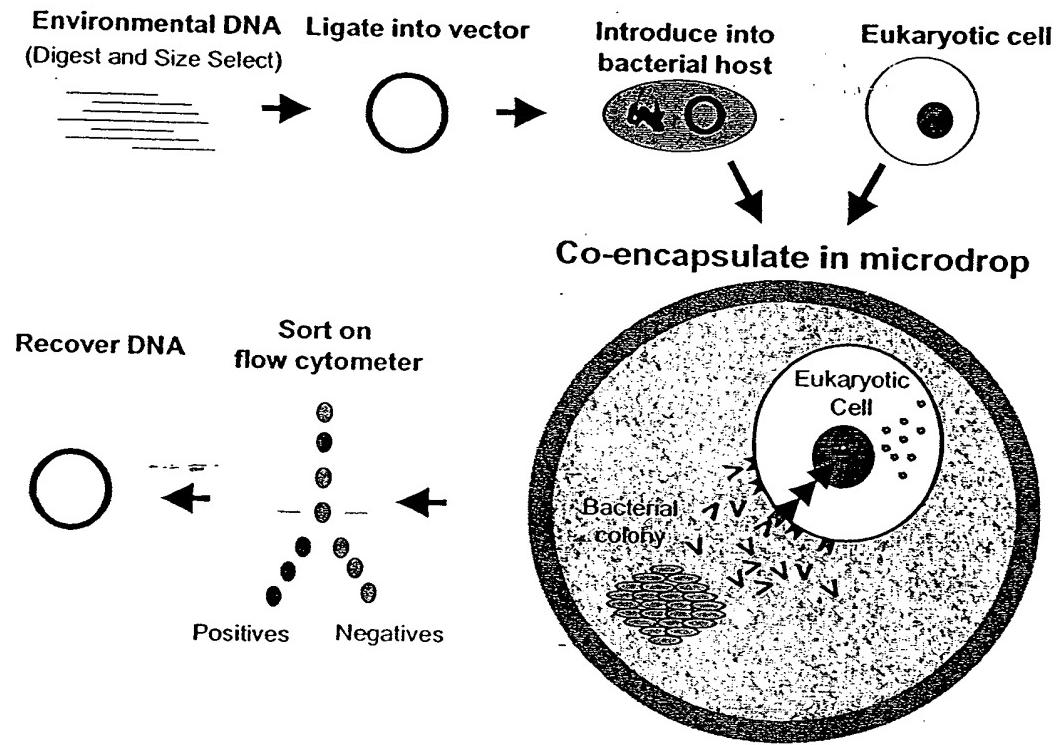
Whole Cell Hybridization

Library 557 + 95ES11 clone
Probe: Fluorescein-95ES11



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FIG. 20



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FIG. 21

Whole Cell Hybridization Protocol

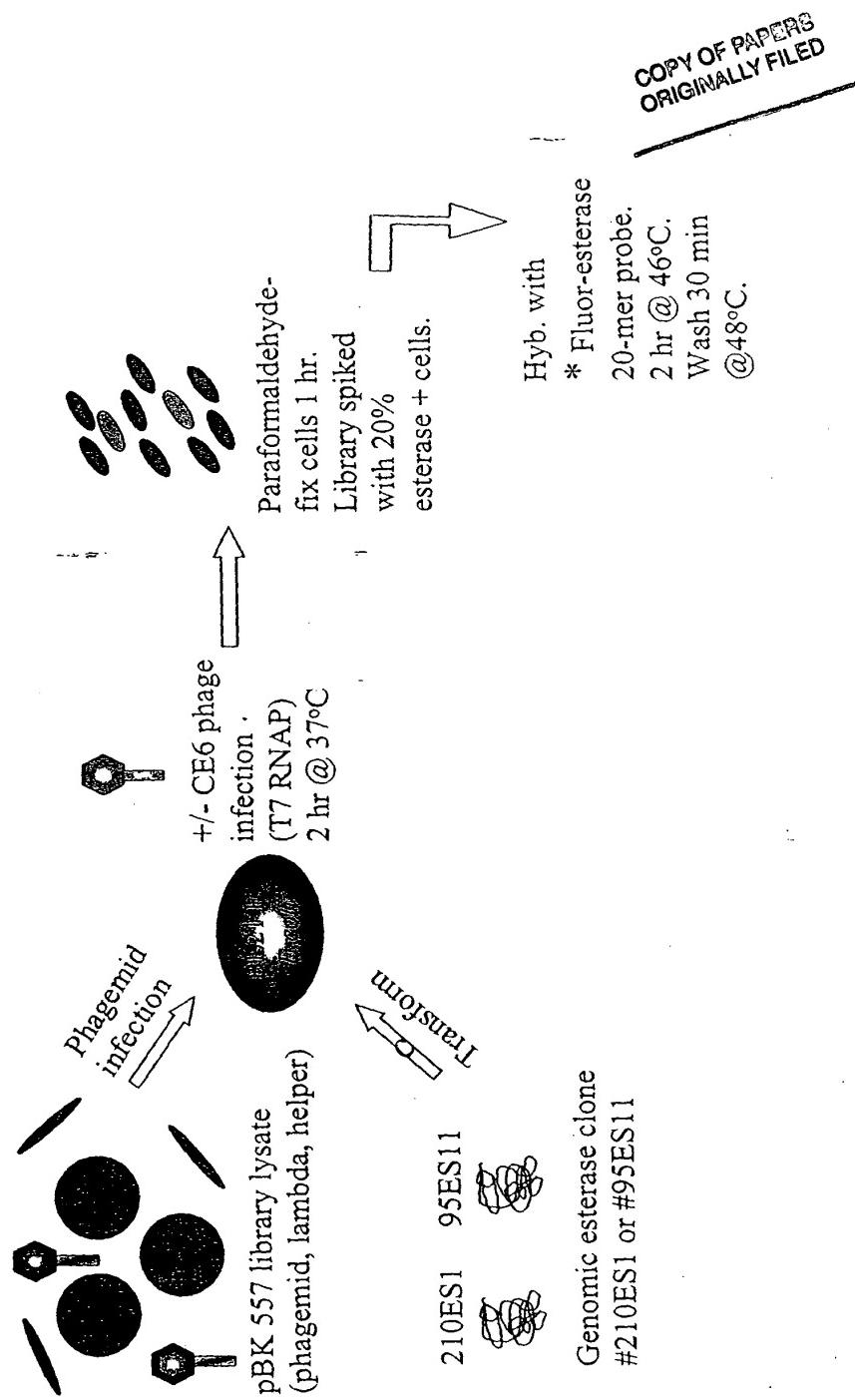


FIG. 22

T7 RNA Polymerase Expression System

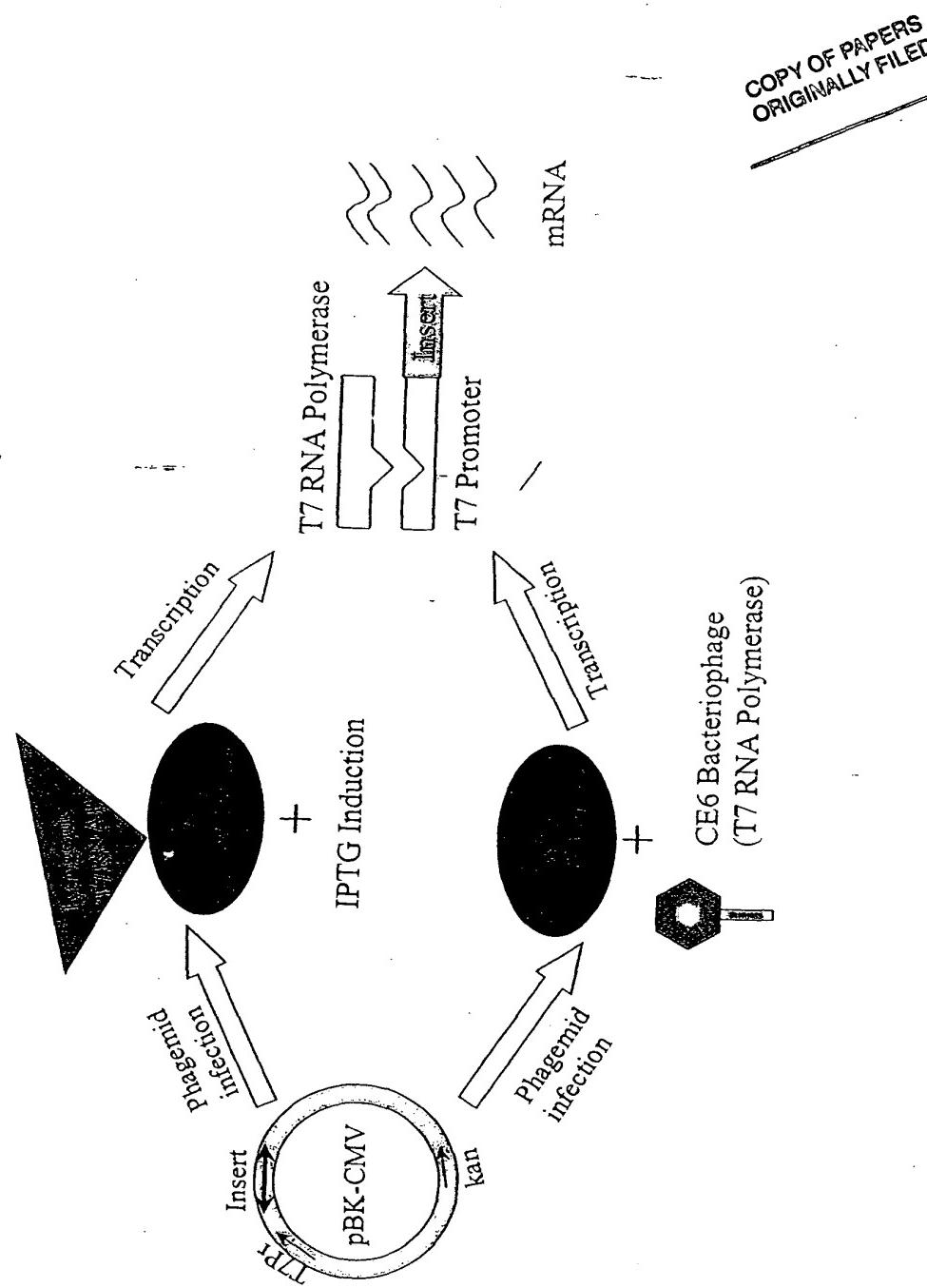


FIG. 23